TELEVISION FROM THE GODS

Warwick

240 PAGE

WORK BOOK

WRITING BOOK

240 PAGES

7mm RULED

Warwick
Manufactured in New Zealand
by WILJEF

Code No. 113·375

9 414952 111119

(19-03-93)

½ Tones + Boxes

1) People who made a difference

2) Creations that made a difference

3) Events that made a difference

Pg. 30 CAT J Sept 1976 Photo

Jerry Pell – Fred Saler – ENG – Production – +

Gayland Bockhahn – Wisc. Rpds, Wisc – Then CATA

People Who Made A Difference

1) Andy Hatfield
2) Bob Lilly
3) Oliver Swan
4) Peter Shaw
5) NSC Lady Owner /
6) Charles Ergen (+ Candy)
7) Frank Ogden (Vancouver)
8) Sandy Wirth
9) Keith Lamonica (Radio Talk Show Host)
10) Tom Humphries
11) Bob Maniachi
12) (NJ Distributor w/ Crim. Record)
13) Shawn Kenny
14) Gary (D & H)
15) Steve Birkin
16) Gary (SVS)
17) Peter (KCM)
18) George (Early Critter – Radical)
19) Doug Dehaven
20) H Paul Shuch
21) Jeffrey Zonk – Home Sat Market Mag
22) Chuck Hewitt Space
23) Jack O' ____ (Canada)
24) Mark Lewis (Clowter / Turner)
25) ~~Hans~~ (Pres. - Luxor)
26) Bill Bruce
27) Sandy Wirth
28) Steve ~~Effros~~ (Cath)
29) Robert & Lib Coleman
30) Robyn ____ (Space)
31) Mike Gustafson
32) Ed Grutsky
33) Bob Richardson
34) Bobby Caylor
35) (Mrs NSC)
36) Karen Hawes
37) John Ramsey

38) Joan Kaul (Wise)
39) David Johnson (Paraclipse)
40) Kenny Schaefer
~~41) Chuck Hewitt (Space)~~ See 22
42) Norman Gillespie
43) Guy Davis
44) (Uniden Sales - from Nat. Microtech)
45) Gene Martin
46) Joe (JV Elect.
47) Chuck (Instant Replay)
48) Anderson (Sun)
49) David (Utah - to Sri Lanka)
50) Alli Lake
51) (Thru Air - Oregon/Washington)
52) Jim (Engineer - McClasky)
53) Ike Blunder
54) Brent Gayle
55) Hank Turex
56) Randall Odom
57) Barry Goldwater
58) David (Orig. Pioneer)
59) Richard L Brown
60) Dana Atchley Jr.
61) Skip (NJ/Early Mesh)
62) (MA Com Polaroton)
63) (HBO Exec over Scrambling)
64) ~~David Johnson~~ Jamie Gowen -
65) Luxor Engineer
66) Tom Harrington
67) Tim "
68) ~~John Lane~~ Uniden
69) Ronald Reagen
70) Kingsley — Locum
71) Jim (VP MA Com)
72) Chris (New Zealand - Canada)
73) Hayden McCullough 8 Bail,
74) Cong. Charles Rose

75) Brant? ______ PA Small dish
76) Senator Al Gore
77) Quebec early dish builder - manual
78) Clyde Washburn
79) Bob Behar
80) Jim Vance
81) Cong. Billy Tauzin Louisiana
82) Senator Robert Dole KS
83) Gary ADL Labs
84) John McDougal Captain Midnight
85) Jon Spitsan
86) Hugh Downs 20/20
87) DR ___ Konishi (Uniden)
88) John Lowe Uniden
~~89) Doug Dehnert~~ See 19
[90 Royden Freeland ICM]
91) Chris Schultheiss + NC Partner ______
92) Rick & Gloria ~~Schering~~ Neringer
93) Keith Anderson
94) David McClaskey
95) ______ FCC Commissioner Oct 1979
96) Brian Lamb
97) Bob Taggart
98) Ted Turner
99) Bill ______ (Prov / Ins.)
100) Jerry ______ (Dealer - NY)
101) Frank ______ (" - Fla)
102) Dave Fedric Na. Microwave
103) George Bell -
104) Michael J. Stone UIC
105) Tony Bickel
106) Danny & Stormy Weathers -
107) J Duke Brown
108) Steve Richey
109) Rod Wheeler Yukon Pub
110) John Kraus Father Radio Astron.
111) ~~Kenny Schaffer~~ See 90
112) Carol Sue Rosin
113) Lloyd ______ Col. Publisher Channel Guide

114) Lewis Larsen (multi feeds)
115) AHMAD Lee Khamsi (QUITO ECUADOR)
116) Gene (Rotating feed Creator)
117) GIBSON (early Navigator Manual)
118) Dave Fedric Partner
119) 3 columbians
120) JOHN SIE Tri —
121) BLAIR GILBERT
122) CLIFF SCHROCK — TEKTRONIX — Beaverton, Or.

Photos on Hand

1) Russian 1980 Olympics – Behar
2) 1st ever Brasil Reception – Miami
3) CBS Cable (Countdown)
4) Super Bowl 17 open
5) Atten Hawaii Earth Station – Hurricane
6) CBPAN will sign on –
7) WU LA TO C
8-9) Warner Sun outtage
10-11-12-13-14-15-16) Early Russian Rcptn
17-18) Boresight News
19) ATC – Argentina
20-21-22) Don King – Sat. Boxing
23) HBO Studios NYC
24) Showtime Ent. Special
25) HBO Logo
26) STT
27) HBO NY to NHK Tokyo – 2/24/80
28) Hurricane / Hot Pants
29) KTVU CB
30) The Entertainment Ch.
31) 2TAR (STA) Channel – Prior to the Movie Ch.
33) Wold Sat Net Sked
34) Unilateral to Prague – TSS Moscow 26-11-84
35) Showtime – WWX
36) TV Nacional de Chile
37) Venezolana de Television
38) USTA – to Brussels 17 Sept 84
39) Nickelodeon Test
40) AFRTS
41) TV Globo – Brasil
42) Home Team Sports Feb 19, 1985
43) WGN CB
44) American Network Movies (? – When, who)
45) Stay Tuned Cable Sat Mag
46) Reuters News – Dec 08 1982
47) Scrambling Info Ch.
48) Watching Galaxy 11 – Jan 07, 1985
49) ESPN – WQ 35

50) Disney CH. AFFIL – Sun outage
51) SiN
52) Audio Polarity Test Sig – ABC ENS NY.
53) The Movie CH – (Early) Warner
54) NBC / NY CB
55) Alaska Sat TV Project
56) CBS feeding Alaska
57) Wulatuc (2nd one)
58) WTBS AT (after WTCG)

MARCH 10, 1985 TESTS OF Recvr & VC2

NOTO

FIRST Unofficial SHOW —

" HAD NO D/C VCR — GUY DAVIS — WINTER CES — UNIDEN

TONIC SAT-TEC / JOHN RAMSEY / DC — SPRAY PAINTED YELLOW — JOHN WALKED BY

UNIDEN BOOTH — SPOTTED HIS D/C — LISTENED TO GUY DAVIS TELL CROWD

HOW UNIDEN WAS GOING TO TAKE OVER WORLD — "Gee I didn't Know

Your guys had decided to use my D/C — May I assume the Purchase

ORDER IS IN THE MAIL? "

MARCH 10, 1985

— Ali LAKE — on Scope display - 1st Clandestine MA/Com VC2

"It looks like Serial data — I would love to Hook my Computer

Terminal up to that to see what there is there — Not that I've

had much success demodulating the data Svcs Hidden on Satellite —

But — one of these days — — — only for non Commercial

Private use, of course".

Testing VC2 Recovery time — Turn on & off each Recvr —

Time How Long it took to Recover descrambled Video + Audio

ESR

Tests — Drake 240 —

Jerry — "We found any Recvr will work — But it doesn't work

on a Parabolic Dish — ! "

— Trying to get the Authorization Light to glow —

CV out MA Com Matter —

" 1800 H1 & T1 Recvrs in stock — MA Com buying time, Knowing

a test such as this would take place"

Sigma VR Recvr — US domestic — $200 Range STU10 Mark IIA /

DX Recvr — Model 700

To Modify Sigma VR — Come directly out of Video Amp chip —

Cap Coupled Video out — 2 Volts — ptop — unclamped Video with

Switch — 2 Wire Recvr Modification — Less than 10 minutes —

VC2 was for HBO/Cinemax —

House SubCommittee on Telecommunications
03/06/86
CSPAN Broadcast Hearings

John
Summers — SNR. exec VP NAB — 2% — 400K Homes — Cannot Rcv. Networks
Costs of Translators? — Does not Know —
Somebody at NAB decided 2% of US Homes did not Rcv The 3 nets —
"people in white Areas" —
James Mooney — Pres NCTA —

Cable Networks instigated by Largest MSOs — Trying to Keep TVRO distribution to Cable operators — or Cable MSOs —

— Viewers First — Cooperative to bring scrambled pgm to TVRO Viewers — Thru TVRO dealers — "To make sure a person who owns a TVRO can buy a service at a Reasonable price".

Jeffery Krauss — M/A Com Wash. Rep-agent / Lobbyist —
The Hardware is not the problem; The software sales Mechanism is troublesome"
— There were 21K descramblers available — HBO on
03/06/86 Record saying only 5K people had signed up for svc (There's being The first & only initial svc).
= only MA Com Dist. Had units to start with —

(2nd set of Hearings in April)
"We want to Find a Commercial Solution, not a Legislative Solution"

FCC Approval:

By adopting 32 minus 25 log Theta Curve —

Jerry Pell — "The FCC is attempting to protect us from ourselves —

MOMENTS OF TRUTH:

1) Tues Sept 30, 1975 9PM EDST — HBO STARTS
See pages 28-29 Cat J Sept 1976

Cat J Sept 1976

A) SNR 54 TO 56 dB — Who needs? —
B) Smaller than a metre —
1) 65 TVROS in 1st year
C) Prodelin — California — 4.57 M fiberglass dish 49 TO ~~50~~ 50 dB SNR

Cat J May 1976

Turning Point on Small Terminals —
1) June 1976 — Fee Rev. For Declaratory Ruling

A) Bob Cooper testified May 20, 1976 / Cong Lionel Van Deerlin's House Subcommittee on Comm.
"As the Fee muddles through the complex legal questions of Earth Terminal (Sharing), it has become apparent that there will one day emerge a mini-industry composed of people or firms who exist solely for the purpose of providing TVRO signals, for a fee, to any customers they can find"
Cat J — pg 29 — Sept 1976

HBO decided at the beginning it would provide a SVC, not be a CH. operator. In 1976 it had competition from Optical Systems (CA.100) who came to the cable operator & leased a channel, doing its own marketing & billing — Midland, Texas — G & GP movies —

— Tech. Parameters

1976: Rcvr Threshold Point — 12.5 to 12.8 dB

W/ Threshold extension (only in Theory) 9.5 to 10 dB

1975: SA 10M dish maintained surface to +/− ~~0.0125"~~ 0.025"

Basic System

10M (32.8') Dish — 9,000 lbs / 12K shipping

Az/El Hand driven Mount 190° Elevation, 95° Az

7/8" feedline

Dish Mounted Preamp (not yet called LNA)

$10,000 Rcvr

Dish — 24 Panels / each 200 pounds

Hub — weighs 750 pds

125 mph winds / 1/2" Ice Loading

Rcvrs 3.7 − 4.2 & 1112.5 MHz (~~[illegible]~~ 36 MHz) & 70 MHz.

Single 6.8 MHz Audio

19" W — 5 1/4" Rack

SA had 300 WR-411 Rcvrs in various configurations

Worldwide when HBO began — 200 10M size (+) terminals

First installation: Fort Pierce, Fla. David Smith, Field Install Engineer — "We are shooting for an eventual program of one installation per week* by ~~[illegible]~~ Sept 1976".

= See Henry Marron Quote — Page 36 — 12' Dish.

2nd < Burn Fort Smith, Ark (UA), Laredo, Tx (UA)

A) Andrew supplied 1st non-SA to Tulsa Cable (United Video / Formerly VO Cable) Oct 1975. Had Az/El adjustments on Jack screws for Anik I.

WR411 Rcvrs — Supplied w/ 6 xtals (chs)

= Westar was 1st sat used — RCA leased space from WU — Sublet to HBO.

=

With talk of smaller than 9M (32-25 ls T) ABC Filed Petition for FCC Rule making (Nov 1975) seeking all Rcv terminals be 10M ↑ in size — to Protect future orbital slots. Real Reason for Petition — a Rule making could be used to Freeze FCC Processing of additional CATV TVROs for years — ABC feared TVRO would have Big Positive impact on Cable.

Cliff Schauck: — Photo page 36 CATJ Sept 1976

Building oregon CATV — $2000 Budget — own TVRO — 43dB SNR —

See page 33 Sept 1976 CATJ

Rule of thumb about mesh dishes (no-no)

Words:

Sparklies – Cliff Schlock – Casa Ccus 76,

ANIK I / NOV 09 1971 - 12 CH

II / APRI 20 1972 - 12 CH

Leased 3 CHs TO RCA (AK)

III / MAY 07, 1975

CANADIAN CABLE TV ASSOC - FROM 1973 TRIED TO LEASE SPACE ON ANIKS TO CARRY US (BORDER) TV PGMS TO CAN. CABLE.

JUNE 11, 1975 CABLESAT - 1 OR MORE XPNDRS FOR CANADIAN CABLE - TO USE 4.5M dishes -

CCTA: MIN SNR OF 44 dB

DELTA-BENCO-CASCADE demod 6/75 4.5M DISH ON ANIK -

STUDYING TRADE OFFS USING LOWER NF PREAMP

PRICING:

8/76 70-120° LNA - ~~Aug~~ 1976 - $8,000 TO $10K
150-180° LNA " " - ?

9/75 3.5 dB (___°) GIPOLAR - $2000
2.6 dB ___°) GAASFET - $6000
1.6 dB ___°) PARAMETRIC - $14,000

CUT J OCT 1975 [1975 prediction - dramatic drop in GAASfet devices &
LNAS 1.6 TO 1.9 dB at $2500

MAXIMUM DOWNLINE 200' (718S)

32 minus 25 log theta — Ant. Response Curves

TASO — C to I tests run by ITT (Connie Fioretti)

1) See interference — 18dB

Tech people 20 ~~[illegible]~~ dB

Non " " 17 dB

2) objectionable —

14 dB (15 tech, 12 min tech)

— Polarization Separation — RCA — frequency Re-use —

25 to 26 dB Polar. Sep.

(initial CCIR report suggested 32dB C to I)

* You will see images floating sooner at ~~[illegible]~~ 54+dB SNR

Thru at 49dB SNR.